

**Electro-Voice®**  
a gulton company

## Model 634B Model 634BSR Dynamic Microphone

### SPECIFICATIONS

**Generating Element:**  
Moving coil dynamic

**Frequency Response:**  
70-10,000 Hz

**Polar Pattern:**  
Omnidirectional

**Impedance,**  
**634B:**  
150 ohms or Hi-Z  
(specify on order)

**634BSR:**  
150 ohms only

**Output Level,**  
**Hi-Z:**  
-57 dB  
(0 dB = 1 volt/dyne/cm<sup>2</sup>)

**150 Ohms:**  
-57 dB  
(0 dB = 1 mW/10 dyne/cm<sup>2</sup>)

**EIA Sensitivity,**  
**Hi-Z:**  
-153 dB

**150 Ohms:**  
-151 dB

**Diaphragm:**  
E-V Acoustalloy®

**Case Material:**  
Gray high impact Lexan™

**Dimensions:**  
46 mm (1.8") diameter  
107 mm (4.2") long

**Mounting**  
5/8" -27 thread

**Net Weight:**  
312 g (11 oz), including cable

**Switch,**  
**634B:**  
None

**634BSR:**  
Shorts mike in off position  
and closes relay circuit.

**Cable,**  
**634B:**

**Hi-Z:**  
1.8 m (6') single-conductor,  
shielded, rubber-jacketed

**150 Ohms:**  
1.8 m (6'), two-conductor,  
shielded, rubber-jacketed

**634BSR:**  
**150 Ohms:**  
1.8 m (6'), four-conductor,  
two shielded, plastic jacketed

### DESCRIPTION AND APPLICATIONS

Two unique, modern general purpose microphones, the Electro-Voice Models 634B and 634BSR constitute a fresh, new approach to microphone design. Advanced engineering and production techniques have resulted in a microphone exhibiting extended frequency response and high output level combined with attractive styling and extreme ruggedness, and all at very moderate cost. This combination of features makes these microphones ideal for public address, amateur and commercial communications, paging systems, and electronic teaching aids.

The 634B and 634BSR are durably constructed of high impact Lexan Standard female 5/8" -27 threads are provided for convenient attachment to standard boom or gooseneck with complete concealment of cable. Designed for desk mounting in electronic teaching aids, communications, and paging systems, where the finest quality is required.

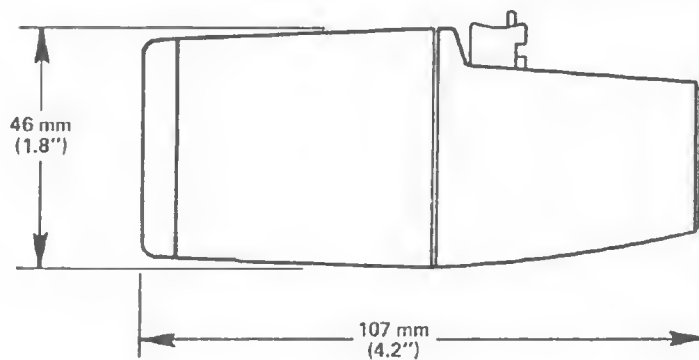


FIGURE 1 – Dimensions

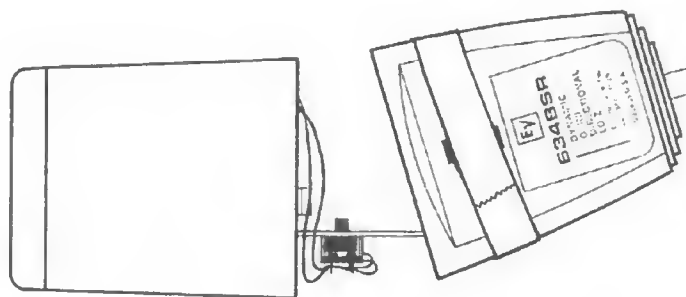


FIGURE 2  
Disassembling 634BSR

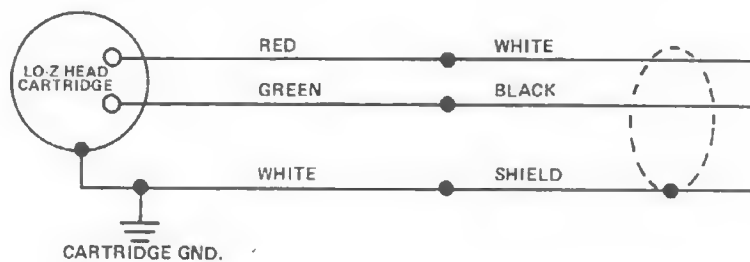


FIGURE 3A  
Wiring Diagram of 634B, Lo-Z

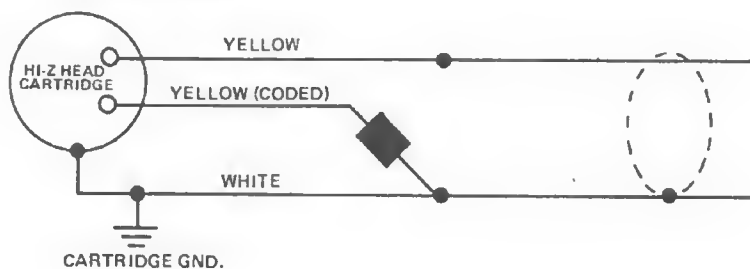


FIGURE 3B  
Wiring Diagram of 634B, Hi-Z

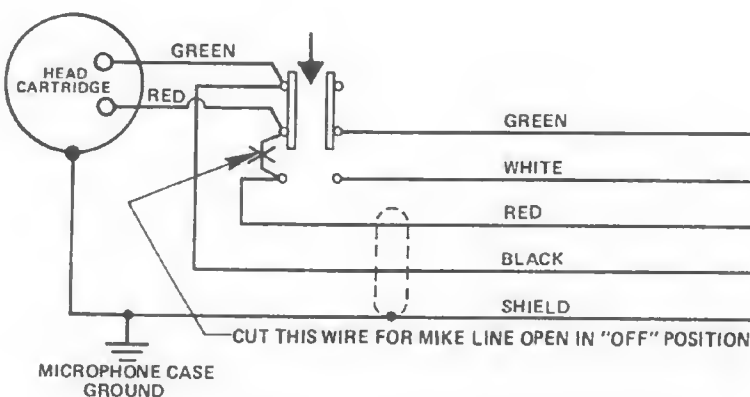


FIGURE 4  
Wiring Diagrams of 634BSR  
Balanced Lo-Z with mike shorted in  
switch "off" position (as shipped)

The Model 634B, which does not contain a switch, is available in high or low impedance. The Model 634BSR is available in low impedance only and includes a double pole, double throw push-to-talk on/off switch. The extra switch contacts may be used to activate a relay or for like purposes. Two conductors are provided in the integral cable to allow wiring the switch into a circuit. Also included in the 634BSR is a simple to use switch lock which has been engineered to prevent accidental lock-on.

#### DISASSEMBLY OF THE 634BSR

Remove the microphone from its boom gooseneck mounting. This will uncover the slotted screw that holds the case parts together. Lock the switch and tape it in the on position. Remove the screw. Orient the microphone with the switch facing up and the front to your left. Slowly pull the case front away from the rear so that the bracket to which the screw was attached will clear the switch assembly (see Figure 2). If not done carefully, it is possible to pull the switch assembly loose from the case, causing it to automatically disassemble into several pieces.

Reassembly follows the reverse order of disassembly quite nicely.

#### PARALLEL OPERATION OF 634BSR

If the 634BSR is to be used in applications such as a multiple microphone paging installation (where several units are connected in parallel to a single microphone input), connections should be revised as shown in Figure 4. Cutting the bare wire between the terminals to which the red wires are attached opens the microphone output when the switch is in the "off" position.

#### ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The Model 634B microphone shall be a pressure, dynamic type with uniform frequency response from 70 to 10,000 Hz. The diaphragm shall be of non-metallic Acoustalloy®. The microphone output shall be (specify either 150 ohms or Hi-Z) impedance. Output level shall be -57 dB with 0 dB equaling (specify either 1 volt/dyne/cm<sup>2</sup> at high impedance, or 1 mW/10 dynes/cm<sup>2</sup> at 150 ohms). EIA sensitivity rating shall be (specify either -153 dB at high impedance, or -151 dB at 150 ohms). The case shall be of gray high impact Lexan. Dimensions shall be 46 mm (1.8") diameter and 107 mm (4.2") long. A 1.8 m (6 foot) cable (specify either single conductor for Hi-Z, or two-conductor for 150 ohms), shielded, synthetic rubber-jacketed shall be provided. The microphone shall include 5/8" -27 mounting threads and shall permit complete concealment of cable when mounted. Net weight shall be 312 g (11 oz), including cable.

The Electro-Voice Model 634B is specified.

The Model 634BSR microphone shall be a pressure, dynamic type with uniform frequency response from 70 to 10,000 Hz. The diaphragm shall be of non-metallic Acoustalloy®. The microphone output impedance shall be specified as 150 ohms. Output level shall be -57 dB with 0 dB equaling 1 mW/10 dynes/cm<sup>2</sup>. EIA sensitivity rating shall be specified as -151 dB.

The microphone shall have a push-to-talk switch which shorts microphone output in "off" position and provides an extra set of contacts for use in external switching circuits. The case shall be of gray high impact Lexan. A 1.8 m (6 ft), four-conductor, two

shielded, plastic jacketed cable shall be provided. The microphone shall include 5/8" -27 mounting threads and shall permit complete concealment of cable when mounted.

The Electro-Voice Model 634BSR is specified.

#### WARRANTY (Limited) —

Electro-Voice General Purpose Microphones are guaranteed without time limit against malfunction in the acoustic system due to defects in workmanship and materials. (Any active electronics incorporated in a microphone is guaranteed for three years from date of original purchase against such malfunction.) If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish, appearance items, cables, cable connectors, or switches and does not cover malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For correct shipping address, instructions on return of Electro-Voice products for repair, and locations of authorized service agencies, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (Phone 616/695-6831) or 7473 Avenue 304, Visalia, CA 93277 (209/625-1330,-1).

Electro-Voice also maintains complete facilities for non-warranty service of E-V products.

Specifications subject to change without notice.